## Deluges strike at valuable coral reef

By Malaka Rodrigo

he intense rainfall that fell across the country a few weeks back left an unexpected victim: coral

Marine and Coastal Resources Conservation Foundation member Upali Mallikarachchi has revealed that some parts of the Bar Reef marine sanctuary at Kalpitiya have begun bleaching.

Bleaching is one of the worst destructive natural phenomena faced by corals worldwide. It occurs when coral polyps, the organisms that build corals, shed the algae zooxanthellae that give them their colour.

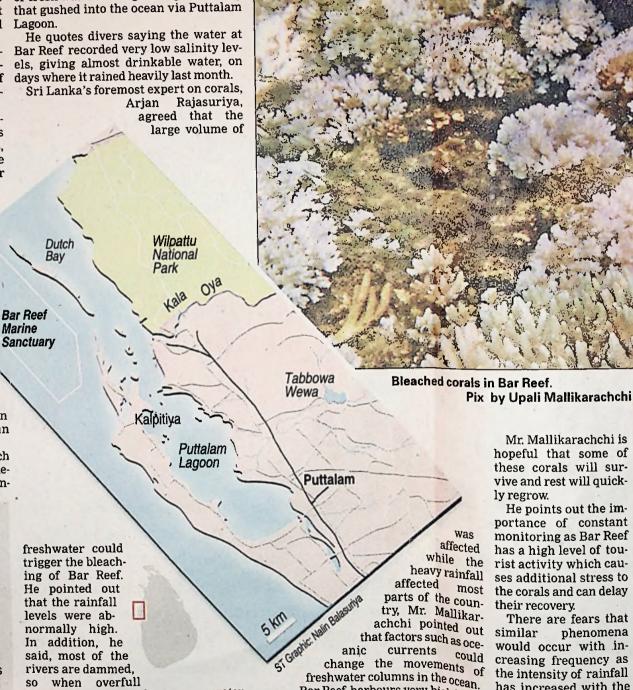
These tiny algae, which live in harmony with the corals, also provide food for the host through the process of photosynthesis. Without the algae the coral becomes pale white and the coral polyps can be exposed to ultraviolet radiation.

Without food, oxygen or cover from dangerous rays, the coral polyps in the reef will die a few weeks after bleaching starts.

Factors that cause bleaching through the departure of the algae include a change in salinity levels, a rise in sea surface temperature and changes in light intensity.

Mr. Mallikarachchi, a former research officer at NARA (National Aquatic Resources Research and Development Agen-

cy), says the bleaching at Bar Reef could have been triggered by the large volume of fresh water flowing through Kala Oya that gushed into the ocean via Puttalam



so when overfull dams are opened to release excess water as happened a few weeks ago - there is are ways a sudden influx of freshwater in the ways a sudden influx of freshwater in the coral bleaching in Bar Reef are the coral bleac

When questioned, why only Bar Reef spots where coral growth is high,

Mr. Mallikarachchi is hopeful that some of these corals will survive and rest will quickly regrow.

He points out the importance of constant monitoring as Bar Reef has a high level of tourist activity which causes additional stress to most the corals and can delay

There are fears that achchi pointed out similar phenomena could creasing frequency as

Bar Reef harbours very high biodi.

coral bleaching in Bar Reef are the prime

has increased with the climate change. Experts also fear that the increase of cardams are opened to release excess water as happened a few weeks ago - there is also fear that the uncrease of the few pristing corporations as happened a few weeks ago - there is also fear that the atmosphere bon dioxide levels in the atmosphere

> International Union for Conservation of Nature (IUCN) data shows coral spe-

cies are heading towards extinction more rapidly than other organisms.

Corals are the breeding habitats of many fish species that have economic value, so losing coral reefs will affect the whole oceanic system.

